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Direct Push Waste Zone Lysimeter– Type B Probe

Problem

INEEL's Radioactive Waste Management Complex remediation project needed to obtain groundwater samples from soil surrounding buried waste without exposing workers to transuranic or hazardous contaminants.

Baseline Technology

Corehole drilling with extensive contamination control to retrieve samples for laboratory analysis.

Innovative Technology

The Direct Push Waste Zone Lysimeter is a sampler probe that is driven into buried waste to collect groundwater.

Comparison

This Type B probe is inserted into the waste zone and left in place to enable the collection of groundwater samples without corehole drilling.

Benefits

Use of the lysimeter probe and other Type B probes, collectively increase worker safety by avoiding risks associated with handling waste materials, and could save the project an estimated \$8.5 million by eliminating the need for coring sample retrieval.

ENVIRONMENTAL RESTORATION PROGRAM

Project: ID-ER-107
Radioactive Waste Management Complex Remediation